

**IN THE CLAIMS**

For the convenience of the Examiner all pending claims of the present Application are shown below whether an amendment has been made or not. Please amend the claims as follows:

1. **(Canceled)**

2. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer is further operable to:

format the messages to be transmitted for communication to the wireless communication device, and

format the messages destined for communication through the bus connector for the protocol transceiver.

3. **(Canceled)**

4. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer examines the destination address of the messages to determine whether the messages satisfy predetermined criteria.

5. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer has a plurality of predetermined criteria sets.

6. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer is further operable to analyze the messages destined for communication through the bus connector to determine whether they should be sent through the bus connector.

7. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein:  
the wireless communication device is further operable to receive messages destined for the computer; and  
the computer is further operable to determine if the messages are destined for it.

8. **(Original)** The system of Claim 7, wherein at least some of the messages destined for the computer specify criteria for determining whether messages received through the bus connector should be transmitted.

9. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, further comprising a second protocol transceiver coupled to the bus connector and the computer, the second protocol transceiver operable to:

receive messages destined for communication through the bus connector and send the messages through the bus connector according to a second vehicle bus protocol; and

receive messages through the bus connector according to the second vehicle bus protocol.

10. **(Original)** The system of Claim 9, wherein the computer is further operable to select, for a message destined for communication through the bus connector, which of the protocol transceivers will send the message.

11. **(Original)** The system of Claim 9, wherein the first protocol transceiver is operable to send and receive messages through the bus connector according to J1939 and the second protocol transceiver is operable to send and receive messages through the bus connector according to J1587.

12. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer comprises a memory operable to store messages received through the bus connector for transmission upon the establishment of a wireless link.

13. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer comprises a memory operable to store information about an associated vehicle.

14. **(Original)** The system of Claim 13, wherein the information comprises the vehicle identification number.

15. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer is further operable to perform the operations of a node on a vehicle bus.

16. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the bus connector comprises an assembly line diagnostic link connector having sixteen pins.

17. **(Currently Amended)** The system of ~~Claim 1~~ Claim 19, wherein the computer is further operable to manage messages to be transmitted over the wireless link.

18. **(Original)** The system of Claim 17, wherein the computer is operable to store a message in a buffer, determine whether a sufficient amount of such messages are present in the buffer, and transmit the messages if a sufficient amount of messages are present to manage messages to be transmitted over the wireless link.

19. (Currently Amended) ~~The system of Claim 1, wherein the computer is further operable to~~ A system for vehicle protocol conversion, comprising:

a bus connector adapted to be coupled to a vehicle bus;

a protocol transceiver coupled to the bus connector, the protocol transceiver operable to:

receive messages destined for communication through the bus connector and send the messages through the bus connector according to a vehicle bus protocol, and

receive messages through the bus connector according to the vehicle bus protocol;

a computer coupled to the protocol transceiver, the computer operable to:

claim multiple addresses on the bus bus,

analyze the messages received through the bus connector to determine whether the messages should be transmitted to a diagnostic system, the determination based on predetermined criteria set by the diagnostic system, and

receive the messages destined for communication through the bus connector; and

a wireless communication device coupled to the computer, the wireless communication device, using a wireless link, operable to transmit the messages that should be transmitted and receive the messages destined for communication through the bus connector.

20. (Currently Amended) The system of ~~Claim 1~~ Claim 19, wherein the wireless communication device is a high-speed, short-range wireless communication device.

Claim 21-46 (Canceled)